

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P213499

Luminaire Tested: **14GR-LD5-43-A125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-A125-UNV-L935-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3683.9 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

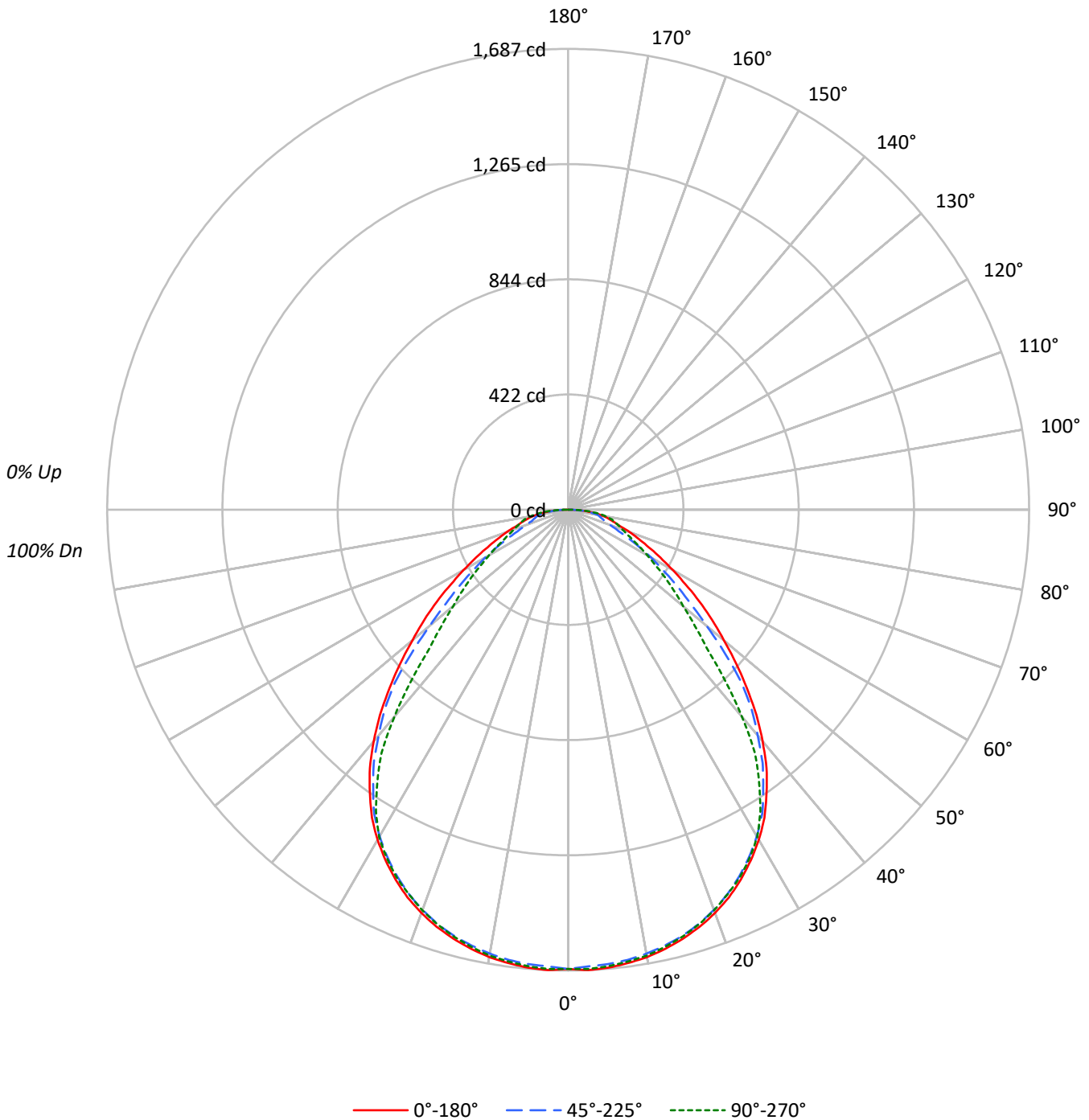
Input Watts (W): 42
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P213499

CATALOG NUMBER: 14GR-LD5-43-A125-UNV-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P213499

CATALOG NUMBER: 14GR-LD5-43-A125-UNV-L935-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5664	5664	5664
5°	5692	5649	5674
10°	5690	5647	5670
15°	5670	5635	5644
20°	5633	5590	5596
25°	5558	5507	5523
30°	5430	5370	5383
35°	5206	5119	5010
40°	4868	4748	4357
45°	4406	4280	3417
50°	3898	3463	2881
55°	3450	2847	2541
60°	2977	2355	2252
65°	2590	1874	2071
70°	2341	1608	2071
75°	2247	1679	2313
80°	2503	2138	2703
85°	2641	2281	3236



TEST NUMBER: P213499

CATALOG NUMBER: 14GR-LD5-43-A125-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	4.3
10°-20°	457.0	12.4
20°-30°	683.9	18.6
30°-40°	774.2	21.0
40°-50°	659.4	17.9
50°-60°	446.5	12.1
60°-70°	266.6	7.2
70°-80°	166.5	4.5
80°-90°	70.4	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1300.3	35.3
0°-40°	2074.5	56.3
0°-60°	3180.4	86.3
0°-90°	3683.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3683.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1681	1681	1681	1681	1681	
5°	1683	1678	1670	1680	1678	160
15°	1626	1620	1615	1626	1618	459
25°	1495	1490	1481	1488	1485	687
35°	1266	1258	1244	1232	1218	789
45°	925	927	898	766	717	713
55°	587	555	485	432	432	525
65°	325	271	235	251	260	327
75°	173	155	129	169	178	186
85°	68	63	59	74	84	73
90°	0	0	0	0	0	



TEST NUMBER: P213499

CATALOG NUMBER: 14GR-LD5-43-A125-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1681.0	1681.0	1681.0	1681.0	1681.0
2.5°	1687.1	1682.8	1673.4	1684.5	1682.8
5°	1682.8	1678.5	1670.0	1680.2	1677.6
7.5°	1674.2	1670.0	1662.3	1672.5	1668.3
10°	1663.1	1658.0	1650.3	1661.4	1657.2
12.5°	1646.0	1640.9	1634.0	1645.2	1639.2
15°	1625.5	1619.5	1615.3	1625.5	1617.8
17.5°	1600.7	1595.6	1589.7	1599.9	1591.4
20°	1570.8	1566.6	1558.9	1564.8	1560.6
22.5°	1536.6	1530.7	1522.9	1529.8	1523.8
25°	1494.8	1490.5	1481.1	1487.9	1485.4
27.5°	1446.9	1444.3	1433.3	1441.8	1437.5
30°	1395.6	1388.8	1380.2	1382.8	1383.6
32.5°	1336.6	1328.1	1321.2	1315.3	1309.3
35°	1265.7	1258.0	1244.4	1231.6	1217.9
37.5°	1192.2	1182.0	1168.3	1140.1	1123.0
40°	1106.8	1101.6	1079.4	1040.1	990.5
42.5°	1019.6	1014.5	994.8	906.8	852.9
45°	924.7	927.3	898.2	765.8	717.1
47.5°	834.1	841.0	777.8	653.8	628.2
50°	743.6	751.2	660.6	564.9	549.5
52.5°	664.0	658.1	563.2	495.7	488.8
55°	587.2	554.6	484.6	432.5	432.5
57.5°	508.5	462.4	411.9	378.6	378.6
60°	441.8	384.6	349.5	327.3	334.1
62.5°	380.3	319.6	289.8	285.4	294.0
65°	324.8	270.9	235.0	251.3	259.8
67.5°	279.5	231.6	193.1	227.4	232.5
70°	237.6	201.7	163.2	209.4	210.2
72.5°	199.2	177.7	140.2	189.7	193.1
75°	172.6	154.7	129.0	169.2	177.7
77.5°	151.3	132.4	118.8	146.1	162.4
80°	129.0	108.5	110.2	123.1	139.3
82.5°	99.1	83.7	87.2	100.8	113.6
85°	68.3	63.2	59.0	74.4	83.7
87.5°	36.7	34.2	29.9	41.9	42.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)